DS
3/29/79

REPORT ON:
Chemical Mineral Reclamation Inc.
421 Stone Levee Road
Cleveland, Ohio

March 29, 1979

OWNER CONTACT:

Mr. Rodney Cronin
3200 Clark Avenue
Cleveland, Ohio 1-(216)-631-3055

Spill #5-18-520

Location: In the "Flats" downtown Cleveland near the mouth of the Cuyahoga River. Located on railroad owned property of about 8.4 acres; underneath a bridge.

Company Business: "Broker", Middleman for Flammable Waste. Agent for some plating compounds. Mainly picks up business from some paint manufacturer, and from American Can (can lining materials). The majority of his business is disposal/reclaim of flammable solvents and resins.

Description of Storage Area: Drums are stored in ancient, battered unsecured warehouses. One warehouse contains about 4000 drums stacked to the ceiling, and has concrete plugged floor drains. The drums are in fairly good shape in the building. Only spills of minor nature are indicated inside the building. Littered around the outside of the building are numerous rusted/crushed drums and pails of various materials. Piles of resinous materials; oils are in evidence and are very unsightly. At the rear of the building are several hundred drums for shipment to Robert Ross for incineration. There are a number of puddles/piles of materials dumped at the rear of the building. Most of these appear to be viscous and relatively non-toxic and pose no immediate threat to "waters of the state". There is a large pile of material by the door at the side of the building. This pile contains calcium compounds, paint resin, and some solid antimony compounds. There is the possibility or runoff during severe rain storms from this pile. There is also a truck load of other chemicals in a broken down trailer outside the building. Another warehouse contains about 2000 drums of paint solvents/resins stacked one-high. These drums were not immediately made apparent to our investigators, but were rather discovered while walking over the area. Some drums had been tipped over, but caused no discernible problem due to the fact that they contained resin and solid rubber compounds. In summation; the area outside the building was extremely sloppy; but actual spills to "waters of the state" would be very hard to prove. All wastes are received and shipped in drums. Most drums are opened and checked for "smell" and fluid state. Drums are shipped via commercial hauler according to Mr. Cronin because of insurance liability problems. The immediate neighborhood is dilapidated and very run-down. Mr. Cronin is negoiating to buy the warehouse from the railroad for about $400,000.

Sampling/Cooperation: Mr. Cronin appeared to be very cooperative and assisted me in taking samples from several drums. He did not try to prevent our access to any area. I took samples of 3 drums and some solid material. I do not expect these samples to show any really unusual chemicals.

Disposal: According to Mr. Cronin the solids/resins go to Robert Ross for incineration, while the solvents are sent to Hukill Chemical and Chemical Recovery for re-distillation. Some slightly off specification material (asphalt) may be thinned in a vat and made into roofing compounds. Additionally some of the drummed waste is sprayed on piles of coal to increase BTU value.

Containment: Cannot be considered to be contained; river is across the street. Building/drums also constitute a severe fire hazard.

Toxicity/Inventory Assessement:

Extremely Toxic
Antimony Oxide
Chromic Acid (number of small containers)
Acetic Acid (2 drums)

Moderate Toxicity
Methyl Alcohol (large quantity on hand)
Acetone (many drums, flammable; narcotic fumes)
Perchloroethylene (few drums)
Methylene chloride (strongly narcotic/eye irritant)

Slight/Low Toxicity

Zine Chloride (large number of drums)
Butyl Alcohol
Butyl Acetate
Methyl Ethyl Ketone (large quantity; flammable)
Toluene (" " ")
Xylene (" " ")
Heptane (" " ")
Butyl Cellosolve (" " ")
Asphalt
Resin/Rubber Solvent (" " ")
1,1,1 - Trichlorethane (few drums)
Perchlorethylene (" ")
Paint Solvents, Miscellaneous (large quantity)
Lube Oils

Also there are other ketones/acetates/solvents of low order toxicity.

Reviewers Comment: There did not appear to be any "ringer materials" or any other hidden compounds. There will be some clean-up at this site in the next month or so due to pressure from fire marshall/fire code. The place will come under our regulations eventually. Mr. Cronin claims to have been operating the site for 10 years.

List of participtants 3/27/79 10:30 AM

USEPA (Grosse Ile, Michigan)
Robert Bowlus
Joe Bole

Cuyahoga County Health Department
Anthony Coros

Chemical Mineral Reclamation
Rodney Cronin

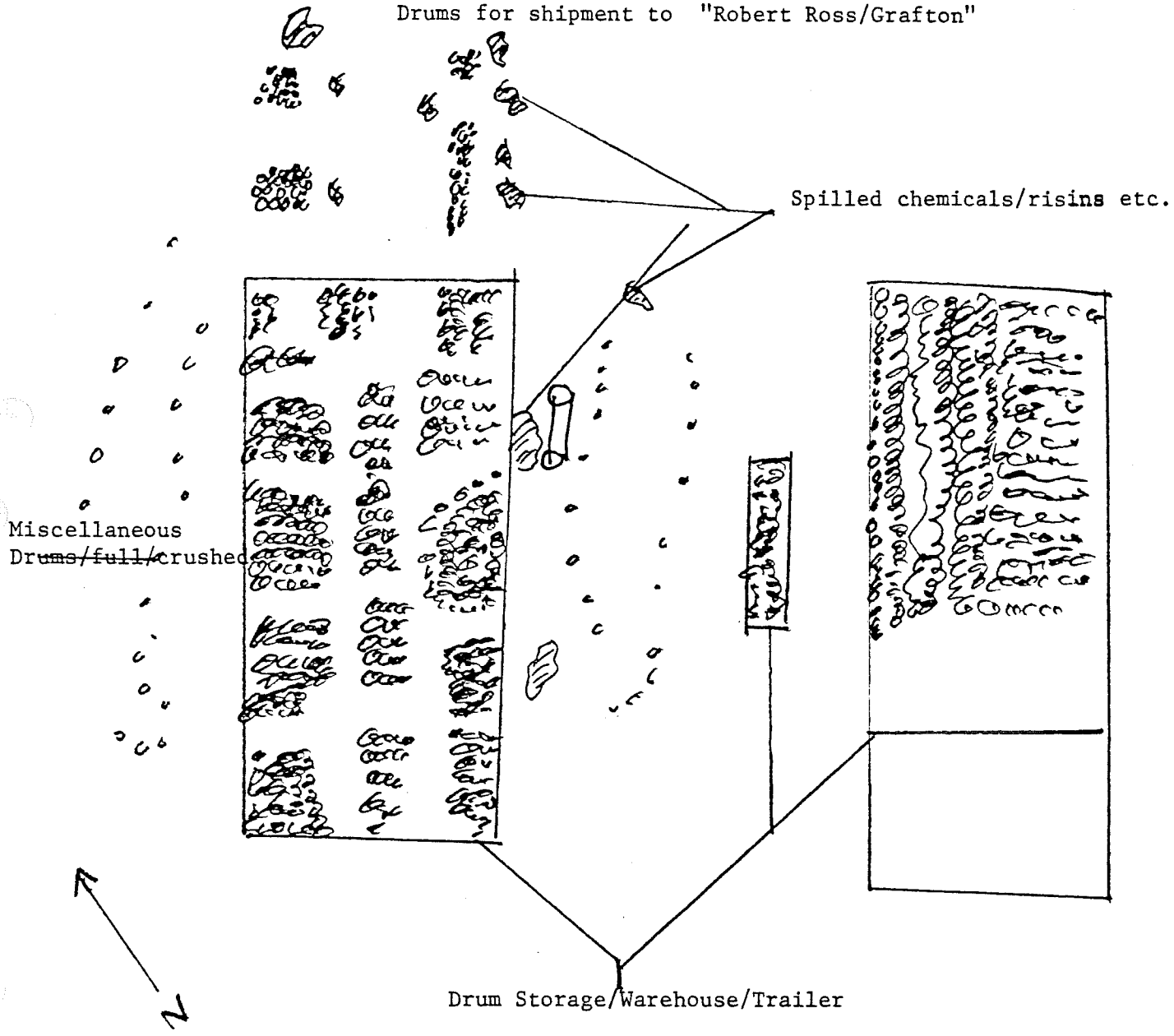
Ohio EPA
Debbie Berg, OLPC, NEDO
Paul Brock, ERS, NEDO
Ken Harsh, ERS, CO

Report Submitted By: Ken M. Harsh

Ken M. Harsh
Assistant Chief
Emergency Response

cc: Paul Brock, ERS, NEDO
Debbie Berg, OLPC, NEDO

Chemical Mineral Reclamation Inc.
Site Map



Stone Levee Road

Cuyahoga River

← Flow

IN THE UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF OHIO

UNITED STATES OF AMERICA, Plaintiff, v. CHEMICALS AND MINERALS RECLAMATION, INC., et al., Defendants.	)	Civil Action No.

AFFIDAVIT

I, Ken M. Harsh, being duly sworn and under oath hereby state that:

1. I have been an employee of the Ohio Environmental Protection Agency (Ohio EPA) since 1972. My present position is that of Assistant Chief, Emergency Response and my duties include overseeing spills of hazardous chemicals and oil. Prior to my appointment at the Ohio EPA, I worked as a fisheries biologist with the Ohio Department of Natural Resources, from 1969 - 1972. I recieved a B.S. in Biology from Baldwin Wallace College in 1969.

2. On March 27, 1979, in the course of my duties, I conducted an investigation of Chemicals & Minerals Reclamation, Inc., (CMR) located at 421 Stones Levee Road, Cleveland, Ohio. I was accompanied by officials from the U.S. Environmental Protection Agency's Eastern District Office and the Cuyahoga County Health Department. Mr. Rodney Cronin met with us at the site by previous arrangement.

3. The property is located in the "flats" downtown Cleveland near the mouth of the Cuyahoga River. The warehouse located on the site lies approximately 50 meters north of the bank of the river. The property consists of 8.4 acres of land, underneath the Lorain-Carnegie Bridge.

4. Mr. Cronin explained the nature of the operations conducted by CMR. The company is a broker for flammable wastes. It picks up wastes from paint manufacturers and plating companies. The majority of the business is disposal and reclamation of flammable solvents and resins.

5. The physical condition of the interior of the building was one of disrepair. Numerous windows had been broken and the condition of the roof was such that meltwater from the previous day's snowfall leaked into the building. The concrete floor supported several thousand 55-gallon drums of various wastes. The drums were in upright positions and, in some locations, were stacked as high as four levels. Pallets were not utilized in all stacking situations.

6. The limited aisle space was generally sullied by what appeared to be a mixture of spill residue and sorbent material. Although the majority of the drums were covered, strong chemical odors prevailed in the building. Mr. Cronin claimed that various types of wastes were segregated, but the absence of any objective labeling scheme prevented my visual verification of that claim. Mr. Cronin estimated that current operations at this location result in a turnover of 8,000 to 10,000 drums per year.

7. Outside the building are littered numerous rusted or crushed drums and pails of various materials. Piles of resinous materials and oils were in evidence and were very unsightly. At the rear of the building were several hundred drums which Mr. Cronin indicated were to be shipped to Robert Ross for incineration. There was a large pile of material by the door at the side of the building which contained calcium compounds, paint resin and some solid antimony compounds. It would be possible for runoff during severe rainstorms from this pile.

8. Although it was not immediately apparent, there were about 2000 drums of paint solvents and resins stacked inside the building located 150 feet away from 421 Stones Levee Road. This building had been partially destroyed by fire earlier this year.

9. Based on the labels on the drums, the following is an indication of the nature of substances being stored by CMR:

Antimony oxide	)	
Chromic Acid	)	Extremely Toxic
Acetic Acid	)	
Methyl Alcohol	)	
Acetone	)	
Perchloroethylene	)	Moderate Toxicity
Methylene Chloride	)	

Zinc Chloride	)	
Butyl Alcohol	)	
Butyl Acetate	)	
Methyl Ethyl Ketone*	)	
Toluene*	)	
Xylene *	)	Slight/Low Toxicity
Heptane*	)	* indicates flammability
Butyl Cellosolve *	)	
Asphalt	)	
Resin/Rubber Solvent *	)	
1,1,1 - Trichlorethane	)	
Perchlorethylene	)	
Paint Solvents, Miscellaneous	)	
Lube Oils	)	

10. Because of the proximity to the Cuyahoga River and the absence of any retaining walls, dikes or levees, any large scale spill would be uncontained and might enter the river.

FURTHER AFFIANT SAYETH NOT

_____

Ken M. Harsh

Sworn and subscribed to before me

this _____ day of June, 1979, in the

County of _____,

Ohio.

OHIO DEPARTMENT OF HEALTH
WATER QUALITY DATA

Date Received: 3/29/79

Date Reported: 4/17/79

Laboratory: Industrial Chemistry.

Laboratory Number: 4072

Analyst: J. Greene

Station: Chemical Mineral Reclamation

Station Code:

County: Cuyahoga

Collected by: Ken Harsh

Phone:

Identification of Sample: Drum in S. Warehouse

Sample Code:

Date of grab sample (or last date of composite sample):

Year	Month	Day	Hour	Minute
79	03	27	12	05

Composite Type:

Sample Types: ☐ Ground Water ☒ Industrial ☐ Sewage ☐ Comp Mon ☐ Water Supply ☐ Stream

Beginning Date of Composite Sample: Year Month Day C Hour Minute

Frequency:

Analysis to be Reported to: ☒ CO ☐ CDO ☐ SE ☐ NE ☐ SW ☐ NW

REASON FOR TAKING SAMPLE — ADDITIONAL INFORMATION — REMARKS BY ANALYST:

PRESERVATIVE:
☐ NaOH
☐ $CuSO_4$
☐ H_2SO_4
☐ HNO_3
☐ OTHER

Should be light solvents /P

Solvent is a mixture of hexane, heptane, ethylacetate, propanol and toluene.

Parameter	Code	Unit	Parameter	Code	Unit	Parameter	Code	Unit
☐ Regular (or indicate by checking boxes)			☐ Fluoride Diss, F	H1	mg/l	☐ Cyanide, CN	N1	mg/l
☐ Flow	Y2	CFS	☐ Calcium Total, Ca	H2	mg/l	☐ MBAS	N2	mg/l
☐ Water Temperature, Field	Y3	C°	☐ Magnesium Total, Mg	H3	mg/l	☐ Oil-Grease, Total	N3	mg/l
☐ pH, Field	Y4	S. U.	☐ Potassium Total, K	H4	mg/l	☐ Phenols	N4	ug/l
☐ Dissolved Oxygen, Field	Y5	mg/l	☐ Sodium Total, Na	H5	mg/l	☐ Tannin Lignin	N5	mg/l
☐ Hydrogen Sulfide, Field	Y6	mg/l	☐ Aluminum Total, Al	H6	ug/l	☐ Aldrin, Whl Smpl	N6	ug/l
☐ Chlorine Free Avl, Field	Y7	mg/l	☐ Antimony Total, Sb	H7	ug/l	☐ DDD, Whl Smpl	N7	ug/l
☐ Chlorine Tot Resd, Field	Y8	mg/l	☐ Arsenic Total, As	H8	ug/l	☐ DDE, Whl Smpl	N8	ug/l
☐ Color	Y9	Pt-Co	☐ Barium Total, Ba	H9	ug/l	☐ DDT, Whl Smpl	N9	ug/l
☐ Odor	Y0	T. N.	☐ Beryllium Total, Be	H0	ug/l	☐ Dieldrin, Whl Smpl	N0	ug/l
☐ Turbidity	U1	FTU	☐ Bismuth Total, Bi	J1	ug/l	☐ Chlordane, Whl Smpl	M1	ug/l
☐ Conductivity at 25 C°	U2	U-MHO	☐ Boron Total, B	J2	ug/l	☐ Endrin, Whl Smpl	M2	ug/l
☐ pH, Lab	U3	S. U.	☐ Cadmium Total, Cd	J3	ug/l	☐ Heptachlor, Whl Smpl	M3	ug/l
☐ pH, $CaCO_3$ Stability	U4	S. U.	☐ Chromium Total, Cr	J4	ug/l	☐ Hchlr-Epoxide, Whl Smpl	M4	ug/l
☐ Alkalinity Total, $CaCO_3$	U5	mg/l	☐ Chromium Hex, Cr	J5	ug/l	☐ Lindane, Whl Smpl	M5	ug/l
☐ Alkalinity Phth, $CaCO_3$	U6	mg/l	☐ Cobalt Total, Co	J6	ug/l	☐ Methoxychlor, Whl Smpl	M6	ug/l
☐ Alkalinity, $CaCO_3$ Stabl	U7	mg/l	☐ Copper Total, Cu	J7	ug/l	☐ Malathion, Whl Smpl	M7	ug/l
☐ Carbon Dioxide, CO_2	U8	mg/l	☐ Iron Total, Fe	J8	ug/l	☐ Parathion, Whl Smpl	M8	ug/l
☐ Acidity Total, $CaCO_3$	U9	mg/l	☐ Iron Diss, Fe	J9	ug/l	☐ Methyl Parathn, Whl Smpl	M9	ug/l
☐ Acidity M.O., $CaCO_3$	U0	mg/l	☐ Iron Ferrous, Fe	J0	ug/l	☐ Beta, Total	M0	pc/l
☐ Hardness Total, $CaCO_3$	I1	mg/l	☐ Lead Total, Pb	K1	ug/l	☐ Beta, Diss	,1	pc/l
☐ Residue, Total	I2	mg/l	☐ Lithium Total, Li	K2	ug/l	☐ Beta, Suspd	,2	pc/l
☐ Residue, Total Volatile	I3	mg/l	☐ Manganese Total, Mn	K3	ug/l	☐ Alpha, Total	,3	pc/l
☐ Residue, Total Nflt (Sus)	I4	mg/l	☐ Mercury Total, Hg	K4	ug/l	☐ Alpha, Diss	,4	pc/l
☐ Residue, Vol Nflt	I5	mg/l	☐ Molybdenum Total, Mo	K5	ug/l	☐ Alpha, Suspd	,5	pc/l
☐ Residue, Total Flt (Diss)	I6	mg/l	☐ Nickel Total, Ni	K6	ug/l	☐ Radium 226, Total	,6	pc/l
☐ Residue, Vol Flt	I7	mg/l	☐ Selenium Total, Se	K7	ug/l	☐ Strontium 90, Total	,7	pc/l
☐ Residue, Settlable	I8	mg/l	☐ Silver Total, Ag	K8	ug/l	☐ Coliform Total, MF	,8	#/100ml
☐ Nitrogen Organic, N	I9	mg/l	☐ Strontium Total, Sr	K9	ug/l	☐ Coliform Total MPN, Conf	,9	#/100ml
☐ Nitrogen Ammonia, N	I0	mg/l	☐ Thallium Total, Tl	K0	ug/l	☐ Fecal Coli Total, MF	,0	#/100ml
☐ Nitrite, N	01	mg/l	☐ Tin Total, Sn	L1	ug/l	☐ Fecal Strep Total, MF	.1	#/100ml
☐ Nitrate, N	02	mg/l	☐ Titanium Total, Ti	L2	ug/l	☐ Plate Count, Total	.2	#/ml
☐ Phosphorus Total, P	03	mg/l	☐ Tungsten Total, T	L3	ug/l	☐ Algae, Total	.3	#/ml
☐ Phosphorus Soluble, P	04	mg/l	☐ Vanadium Total, V	L4	ug/l	☐ TOD	.4	mg/l
☐ Phosphate Total, PO_4	05	mg/l	☐ Zinc Total, Zn	L5	ug/l	☐ BHC	.5	ug/l
☐ Phosphate Ortho, PO_4	06	mg/l	☐ Zirconium Total, Zr	L6	ug/l	☐ TKN	.6	mg/l
☐ Sulfate, SO_4	07	mg/l	☐ BOD, 5-Day	L7	mg/l	☐ Conductivity, Field	.7	U-MHO
☐ Sulfite, SO_3	08	mg/l	☐ COD	L8	mg/l	☒ Scan		
☐ Sulfide, S	09	mg/l	☐ Chlorine Demand, 15 min	L9	mg/l	☐		
☐ Chloride, Cl	00	mg/l	☐ Carbon Total Org. C	L0	mg/l	☐		

COPY DISTRIBUTION: White – Data Processing White – Central Office Yellow – District Office Pink – Owner White – Laboratory

w w 20

OHIO DEPARTMENT OF HEALTH
WATER QUALITY DATA

Date Received: 3/29/79

Date Reported: 4/17/79

Laboratory: Ind

Laboratory Number: 4073

Analyst: J. Green

Station: Chemical Mineral Reclamation

Station Code:

County: Cuyahoga

Collected by: Ken Harsh

Phone:

Identification of Sample: Drum 1,1,1, Trichloroethane (?)

Sample Code:

Date of grab sample (or last date of composite sample): Year 79 | Month 03 | Day 27 | Hour 12 | Minute 15

Composite Type:

Sample Types: ☐ Ground Water ☒ Industrial ☐ Sewage ☐ Comp Mon ☐ Water Supply ☐ Stream

Beginning Date of Composite Sample: Year | Month | Day | C | Hour | Minute

Frequency:

Analysis to be Reported to: ☒ CO ☐ CDO ☐ SE ☐ NE ☐ SW ☐ NW

REASON FOR TAKING SAMPLE — ADDITIONAL INFORMATION — REMARKS BY ANALYST:

PRESERVATIVE:
☐ NaOH
☐ $CuSO_4$
☐ H_2SO_4
☐ HNO_3
☐ OTHER

From Drum — N phase should 1,1,1 trichlor (?) 10 %

S[illegible]ent is a mixture of heptane, hexane and 1,1,1 trichloroethane. 1,1,1 trichloroethane 37% by volume

Parameter	Code	Value	Units	Parameter	Code	Value	Units	Parameter	Code	Value	Units
☐ Regular (or indicate by checking boxes)				☐ Fluoride Diss, F	H1		mg/l	☐ Cyanide, CN	N1		mg/l
☐ Flow	Y2		CFS	☐ Calcium Total, Ca	H2		mg/l	☐ MBAS	N2		mg/l
☐ Water Temperature, Field	Y3		C°	☐ Magnesium Total, Mg	H3		mg/l	☐ Oil-Grease, Total	N3		mg/l
☐ pH, Field	Y4		S. U.	☐ Potassium Total, K	H4		mg/l	☐ Phenols	N4		ug/l
☐ Dissolved Oxygen, Field	Y5		mg/l	☐ Sodium Total, Na	H5		mg/l	☐ Tannin Lignin	N5		mg/l
☐ Hydrogen Sulfide, Field	Y6		mg/l	☐ Aluminum Total, Al	H6		ug/l	☐ Aldrin, Whl Smpl	N6		ug/l
☐ Chlorine Free Avl, Field	Y7		mg/l	☐ Antimony Total, Sb	H7		ug/l	☐ DDD, Whl Smpl	N7		ug/l
☐ Chlorine Tot Resd, Field	Y8		mg/l	☐ Arsenic Total, As	H8		ug/l	☐ DDE, Whl Smpl	N8		ug/l
☐ Color	Y9		Pt-Co	☐ Barium Total, Ba	H9		ug/l	☐ DDT, Whl Smpl	N9		ug/l
☐ Odor	Y0		T. N.	☐ Beryllium Total, Be	H0		ug/l	☐ Dieldrin, Whl Smpl	N0		ug/l
☐ Turbidity	U1		FTU	☐ Bismuth Total, Bi	J1		ug/l	☐ Chlordane, Whl Smpl	M1		ug/l
☐ Conductivity at 25 C°	U2		U-MHO	☐ Boron Total, B	J2		ug/l	☐ Endrin, Whl Smpl	M2		ug/l
☐ pH, Lab	U3		S. U.	☐ Cadmium Total, Cd	J3		ug/l	☐ Heptachlor, Whl Smpl	M3		ug/l
☐ pH, $CaCO_3$ Stability	U4		S. U.	☐ Chromium Total, Cr	J4		ug/l	☐ Hchlr-Epoxide, Whl Smpl	M4		ug/l
☐ Alkalinity Total, $CaCO_3$	U5		mg/l	☐ Chromium Hex, Cr	J5		ug/l	☐ Lindane, Whl Smpl	M5		ug/l
☐ Alkalinity Phth, $CaCO_3$	U6		mg/l	☐ Cobalt Total, Co	J6		ug/l	☐ Methoxychlor, Whl Smpl	M6		ug/l
☐ Alkalinity, $CaCO_3$ Stabl	U7		mg/l	☐ Copper Total, Cu	J7		ug/l	☐ Malathion, Whl Smpl	M7		ug/l
☐ Carbon Dioxide, CO_2	U8		mg/l	☐ Iron Total, Fe	J8		ug/l	☐ Parathion, Whl Smpl	M8		ug/l
☐ Acidity Total, $CaCO_3$	U9		mg/l	☐ Iron Diss, Fe	J9		ug/l	☐ Methyl Parathn, Whl Smpl	M9		ug/l
☐ Acidity M.O., $CaCO_3$	U0		mg/l	☐ Iron Ferrous, Fe	J0		ug/l	☐ Beta, Total	M0		pc/l
☐ Hardness Total, $CaCO_3$	I1		mg/l	☐ Lead Total, Pb	K1		ug/l	☐ Beta, Diss	,1		pc/l
☐ Residue, Total	I2		mg/l	☐ Lithium Total, Li	K2		ug/l	☐ Beta, Suspd	,2		pc/l
☐ Residue, Total Volatile	I3		mg/l	☐ Manganese Total, Mn	K3		ug/l	☐ Alpha, Total	,3		pc/l
☐ Residue, Total Nflt (Sus)	I4		mg/l	☐ Mercury Total, Hg	K4		ug/l	☐ Alpha, Diss	,4		pc/l
☐ Residue, Vol Nflt	I5		mg/l	☐ Molybdenum Total, Mo	K5		ug/l	☐ Alpha, Suspd	,5		pc/l
☐ Residue, Total Flt (Diss)	I6		mg/l	☐ Nickel Total, Ni	K6		ug/l	☐ Radium 226, Total	,6		pc/l
☐ Residue, Vol Flt	I7		mg/l	☐ Selenium Total, Se	K7		ug/l	☐ Strontium 90, Total	,7		pc/l
☐ Residue, Settiable	I8		mg/l	☐ Silver Total, Ag	K8		ug/l	☐ Coliform Total, MF	,8		#/100ml
☐ Nitrogen Organic, N	I9		mg/l	☐ Strontium Total, Sr	K9		ug/l	☐ Coliform Total MPN, Conf	,9		#/100ml
☐ Nitrogen Ammonia, N	I0		mg/l	☐ Thallium Total, Tl	K0		ug/l	☐ Fecal Coli Total, MF	,0		#/100ml
☐ Nitrite, N	01		mg/l	☐ Tin Total, Sn	L1		ug/l	☐ Fecal Strep Total, MF	.1		#/100ml
☐ Nitrate, N	02		mg/l	☐ Titanium Total, Ti	L2		ug/l	☐ Plate Count, Total	.2		#/ml
☐ Phosphorus Total, P	03		mg/l	☐ Tungsten Total, T	L3		ug/l	☐ Algae, Total	.3		#/ml
☐ Phosphorus Soluble, P	04		mg/l	☐ Vanadium Total, V	L4		ug/l	☐ TOD	.4		mg/l
☐ Phosphate Total, PO_4	05		mg/l	☐ Zinc Total, Zn	L5		ug/l	☐ BHC	.5		ug/l
☐ Phosphate Ortho, PO_4	06		mg/l	☐ Zirconium Total, Zr	L6		ug/l	☐ TKN	.6		mg/l
☐ Sulfate, SO_4	07		mg/l	☐ BOD, 5 Day	L7		mg/l	☐ Conductivity, Field	.7		U-MHO
☐ Sulfite, SO_3	08		mg/l	☐ COD	L8		mg/l	☐			
☐ Sulfide, S	09		mg/l	☐ Chlorine Demand, 15 min	L9		mg/l	☐			
☐ Chloride, Cl	00		mg/l	☐ Carbon Total Org. C	L0		mg/l	☐			

COPY DISTRIBUTION: White – Data Processing White – Central Office Yellow – District Office Pink – Owner White – Laboratory

4956.32 – Ohio Department of Health

Chemical Mineral

Vats overflowing Joe Fredl
leakage from drums

no samples collected
dump fire runoff - release
gone next morning
people overcome by fumes

foil material

---

land operator tells industrial waste
B.F. Goodrich - Harshaw Chem.

Soil is Berry covered slowly